

Title (en)  
MEASURING ARRANGEMENT AND METHOD FOR MEASURING THE DENSITY OF FLOWABLE MEDIA

Title (de)  
MESSANORDNUNG UND VERFAHREN ZUM MESSEN DER DICHT E VON FLIESSFÄHIGEN MEDIEN

Title (fr)  
ENSEMBLE DE MESURE ET PROCÉDÉ DE MESURE DE LA DENSITÉ DE MILIEUX COULANTS

Publication  
**EP 3234548 B1 20210120 (DE)**

Application  
**EP 15795186 A 20151118**

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Abstract (en)  
[origin: WO2016096297A1] Disclosed is a measuring arrangement (1) for measuring the density of flowable media, said measuring arrangement comprising: a fluid path (16) for guiding a medium; a pump (14), which is arranged in the fluid path (16), for driving a defined flow volume of the medium in the fluid path (16); a differential pressure measuring arrangement (30a, 30b) for detecting a pressure drop on the basis of the flow volume of the medium between a first pressure tap (32a) and a second pressure tap (32b) in the fluid path (16); a densimeter (20) having at least one oscillator which has at least one vibratory measuring tube (22) for guiding the medium, having at least one exciter arrangement for exciting oscillations of the measuring tube, and having at least one sensor arrangement for detecting at least one vibration property of the oscillator, wherein the measuring tube or the measuring tubes of the at least one oscillator is/are arranged in the fluid path; and comprising an evaluation device (40) which is designed to determine the density of the medium on the basis of the volume flow, the volume flow dependent pressure drop and the at least one vibration property of the oscillator.

IPC 8 full level  
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US 5339258 A 19940816 - STABINGER HANS [AT], et al

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